

IN THE SPECIFICATION:

Page 1, immediately following the title, please insert the following:

This is the U.S. national phase of International Application No. PCT/EP03/02567
filed March 12, 2003, the entire disclosure of which is incorporated herein by reference.

On page 1, after the title, please insert headings as follows:

BACKGROUND

Field of the Disclosure

The paragraph beginning on page 1, line 6 has been changed as follows:

The ~~invention~~ disclosure relates to a device for the implantation of marking bodies in
a human or animal bone and a magazine with marking bodies for this device.

On page 1, line 9 please insert a heading as follows:

Related Technology

On page 2, line 10, please insert a heading as follows:

SUMMARY

The paragraphs beginning on page 2, line 11 have been changed as follows:

~~The present invention is therefore based on the object of providing~~ disclosure
provides a device, which allows a simple and rapid, simultaneous insertion of at least one,
preferably several, preferably sterile marking bodies at a defined position relative to one
another into the skeleton in order to quantify the migration of implant components relative to
the bone, and a magazine with marking bodies for this device.

~~This object is achieved with reference to the device by the features of claim 1 and
with reference to the magazine by the features of claim 22.~~

~~Improvements and further developments of the invention are specified in the
dependent claims.~~

On page 2, line 26 please add the following paragraph:

The device is designed in the form of forceps, and including medial and lateral
forceps handles and medial and lateral forceps limbs wherein a magazine with at least one
marking body can be attached to a magazine retained on one of the forceps limbs.

The disclosure also provides a magazine useful in the device.

The paragraphs beginning on page 2, line 27 have been deleted as follows:

~~At least two marking bodies are advantageously arranged in at least two rows in a
non-collinear manner, thereby allowing the possibility of two-dimensional marking.~~

~~In this context, the marking bodies are spherical or cylindrical with a conical tip and
consist of material, which, through x-ray absorption, shows an adequately high contrast by
comparison with the surrounding bone tissue.~~

~~Furthermore, it is advantageous that pins engage in the magazine in such a manner that the marking bodies are pressed simply and simultaneously into the bone tissue up to a predetermined depth.~~

~~A guide advantageously allows a limitation and regulation of the depth of insertion of the device into a bone cavity.~~

On page 3, line 10 please insert a heading as follows:

BRIEF DESCRIPTION OF THE DRAWINGS

The paragraphs beginning on page 3, line 15 have been changed as follows:

Figure 1 shows a lateral view of an exemplary embodiment of the device according to the ~~invention~~ disclosure;

Figure 2 shows a lateral view of the exemplary embodiment of the device according to the ~~invention~~ disclosure with the magazine fitted;

Figure 3 shows a lateral view of the exemplary embodiment of the device according to the ~~invention~~ disclosure with the magazine fitted and a distal guide attached;

Figure 4 shows a lateral view of the exemplary embodiment of the device according to the ~~invention~~ disclosure with the magazine fitted and the attached distal guide inserted into the bone cavity;

Figure 5 shows a plan view of an exemplary embodiment of the magazine to be used with the device according to the ~~invention~~ disclosure, with ~~the already~~ pre-loaded marking balls;

On page 4, line 9 please insert a heading as follows:

DETAILED DESCRIPTION

The paragraph beginning on page 4, line 10 has been changed as follows:

Figure 1 shows a lateral view of an exemplary embodiment of the a device 1 ~~according to the invention~~, which comprises a medial forceps handle 2, a lateral forceps handle 3, a medial forceps limb 4, and a lateral forceps limb 5. The forceps handles 2 and 3 and the forceps limbs 4 and 5 are connected to one another via a four-lever articulated joint 6. When the forceps handles 2 and 3 are activated, the two forceps limbs 4, 5 are displaced parallel to one another.

The paragraph beginning on page 6, line 8 has been changed as follows:

The diameter of the marking bodies 11, preferably designed as marking balls, is typically 0.5 mm to 2.0 mm. With cylindrical marking elements 11, these may be 3 mm to 6 mm long, and then preferably have a conical tip with a conical angle between 30° and 90°. Bio-compatible materials such as tantalum, pure titanium, titanium alloys, stainless steel, calcium phosphate ceramics, technical ceramics, resorbable ceramics, polymers or composites, which, through x-ray absorption, produce a clear contrast on the x-ray image relative to the surrounding bone 20, are suitable materials for the marking bodies 11.

On page 7, line 1 please add the following paragraphs:

At least two marking bodies are advantageously arranged in at least two rows in a non-collinear manner, thereby allowing the possibility of two-dimensional marking.

In this context, the marking bodies are preferably spherical or cylindrical with a conical tip and are formed of material, which, through x-ray absorption, shows an adequately high contrast by comparison with the surrounding bone tissue.

Furthermore, it is advantageous that pins engage in the magazine in such a manner that the marking bodies are pressed simply and simultaneously into the bone tissue up to a predetermined depth.

A guide advantageously allows a limitation and regulation of the depth of insertion of the device into a bone cavity.